

RADIALLY EXPANSIBLE VESSEL SCAFFOLD AND ASSEMBLY FOR ITS DELIVERY

ABSTRACT OF THE DISCLOSURE

The present invention provides improved prostheses and methods for their
5 endolumenal placement within body lumens, particularly blood vessels. In one embodiment,
the prosthesis of the present invention comprises a plurality of radially expansible rings
having, a plurality of beams connecting axially remote points on adjacent rings, and a
plurality of expansion joints connecting axially proximate points on adjacent rings. The
beams maintain the remote points at a fixed distance when the prosthesis is radially expanded
10 and the expansion joints allow for relative movement of the proximate points during delivery
of the prosthesis. The combination of the beams and expansion joints minimizes the risk of
injury to the body lumen during delivery of the prosthesis to a target site and provides
improved tracking capabilities.

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